

**IN THE CLAIMS:**

Please amend the claims as follows:

C1 Sub D1

1. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  ( $h = 1, 2, 3, \dots, m-1, m$ ) and  $(k = 1, 2, 3, \dots, n-1, n)$  into another video data, and~~

~~wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted  $\{(h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n)\}$  into  $\{m \times (k - 1) + h\}$ -th video data datum.~~

2. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels (in a pixel  $(h, k)$ , ( $h = 1, 2, 3, \dots, m-1, m$ ) and ( $k = 1, 2, 3, \dots, n-1, n$ ), with  $m$  and  $n$  both being natural numbers and satisfying the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  ( $h = 1, 2, 3, \dots,$~~

$m-1, m)$  and  $(k=1, 2, 3, \dots, n-1, n)$  which is to be fed to said pixel  $(h, k)$  into another video data, and

wherein ~~the said video data converter~~ converts a digital video data datum  $(h, k)$  is converted into  $\{m \times (k-1) + h\}$ -th video data datum.

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3. (Currently Amended) A rear projector ~~wherein using~~ three display devices according to claim 1 ~~are used~~.

4. (Currently Amended) A front projector ~~wherein using~~ three display devices according to claim 1 ~~are used~~.

5. (Currently Amended) A rear projector ~~wherein using~~ one display device according to claim 1 ~~is used~~.

6. (Currently Amended) A front projector ~~wherein using~~ one display device according to claim 1 ~~is used~~.

7. (Currently Amended) An electronic equipment comprising ~~a the~~ display device according to claim 1 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

8. (Currently Amended) A rear projector ~~wherein using~~ three display devices according

to claim 2-~~are used~~.

9. (Currently Amended) A front projector ~~wherein~~ using three display devices according to claim 2-~~are used~~.

C/ 10. (Currently Amended) A rear projector ~~wherein~~ using one display device according to claim 2-~~is used~~.

11. (Currently Amended) A front projector ~~wherein~~ using one display device according to claim 2-~~is used~~.

12. (Currently Amended) An electronic equipment comprising ~~a~~ the display device according to claim 2 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

13. (Currently Amended) ~~A~~ The display device according to claim 1 is a liquid crystal display device.

14. (Currently Amended) ~~A~~ The display device according to claim 2 is a liquid crystal display device.

15. (Currently Amended) A display device comprising:

C/ a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$   $\{(h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n)\}$  into another video data;~~

~~wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted- $\{(h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n)\}$  into  $\{m \times (k - 1) + h\}$ -th video data datum; and~~

~~wherein said video data converter circuit has a video formatter, a memory and an address generator.~~

16. (Currently Amended) An electronic equipment comprising ~~a~~ the display device according to claim 15 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

17. (Currently Amended) ~~A~~ The display device according to claim 15 is a liquid crystal display device.

18. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the

relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

wherein said video data converter circuit converts a video data  $(h, k) \{ (h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n) \}$  into another video data,

wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted  $\{ (h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n) \}$  into  $\{m \times (k - 1) + h\}$ -th video data datum,

wherein said gate driver is formed at a lateral side of the said pixel portion, and

wherein said source driver is formed at a longitudinal side of the said pixel portion.

19. (Currently Amended) An electronic equipment comprising a the display device according to claim 18 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

20. (Currently Amended) A The display device according to claim 18 is a liquid crystal display device.

21. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;

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a gate driver for feeding  $n$  gate signal lines with selection signals;  
 a source driver for feeding  $m$  source signal lines with video data; and  
 a video data converter circuit,  
 wherein said video data converter circuit converts a video data  $(h, k)$   $\{ (h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n) \}$  into another video data,  
 wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted  $\{ (h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n) \}$  into  $\{ m \times (k - 1) + h \}$ -th video data datum, and  
 wherein said plurality of gate signal lines are vertical and said plurality of source signal lines are horizontal.

22. (Currently Amended) An electronic equipment comprising a the display device according to claim 21 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

23. (Currently Amended) A The display device according to claim 21 is a liquid crystal display device.

24. (Currently Amended) A rear projector wherein using three display devices according to claim 15 are used.

25. (Currently Amended) A front projector wherein using three display devices

according to claim 15-~~are used~~.

26. (Currently Amended) A rear projector ~~wherein~~ using one display device according to claim 15-~~is used~~.

27. (Currently Amended) A front projector ~~wherein~~ using one display device according to claim 15-~~is used~~.

28. (Currently Amended) A rear projector ~~wherein~~ using three display devices according to claim 18-~~are used~~.

29. (Currently Amended) A front projector ~~wherein~~ using three display devices according to claim 18-~~are used~~.

30. (Currently Amended) A rear projector ~~wherein~~ using one display device according to claim 18-~~is used~~.

31. (Currently Amended) A front projector ~~wherein~~ using one display device according to claim 18-~~is used~~.

32. (Currently Amended) A rear projector ~~wherein~~ using three display devices according to claim 21-~~are used~~.

33. (Currently Amended) A front projector ~~wherein~~ using three display devices according to claim 21 ~~are used~~.

34. (Currently Amended) A rear projector ~~wherein~~ using one display device according to claim 21 ~~is used~~.

35. (Currently Amended) A front projector ~~wherein~~ using one display device according to claim 21 ~~is used~~.

36. (Currently Amended) A display device comprising:  
a pixel portion including  $m \times n$  pixels (in a pixel  $(h, k)$ ,  $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ , with  $m$  and  $n$  both being natural numbers and satisfying the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$   $\{ (h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n) \}$  which is to be fed to said pixel  $(h, k)$  into another video data,~~

wherein ~~the~~ said video data converter converts a digital video data-datum  $(h, k)$  is converted into  $\{m \times (k - 1) + h\}$ -th video data-datum, and



wherein said video data converter circuit has a video formatter, a memory and an address generator.

C/ 37. (Currently Amended) A rear projector ~~wherein~~ using three display devices according to claim 36 ~~are used~~.

38. (Currently Amended) A front projector ~~wherein~~ using three display devices according to claim 36 ~~are used~~.

39. (Currently Amended) A rear projector ~~wherein~~ using one display device according to claim 36 ~~is used~~.

40. (Currently Amended) A front projector ~~wherein~~ using one display device according to claim 36 ~~is used~~.

41. (Currently Amended) An electronic equipment comprising a ~~the~~ display device according to claim 36 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

42. (Currently Amended) ~~A~~ The display device according to claim 36 is a liquid crystal display device.

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[ Please add the following new claims: ]

43. (New) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

two source drivers for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

wherein said video data converter converts a digital video datum  $(h, k) \{ (h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n) \}$  into  $\{m \times (k - 1) + h\}$ -th video datum.

44. (New) A rear projector using three display devices according to claim 43.

45. (New) A front projector using three display devices according to claim 43.

46. (New) A rear projector using one display device according to claim 43.

47. (New) A front projector using one display device according to claim 43.

48. (New) An electronic equipment comprising the display device according to claim 43 is selected from the group consisting of a head mount display, a computer, a video camera, a

DVD player, and display apparatus.

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49. (New) The display device according to claim 43 is a liquid crystal display device.

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